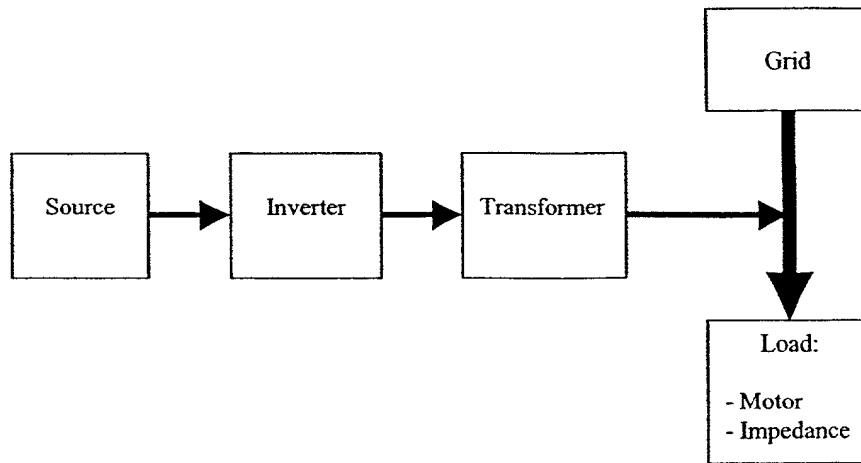


FIG. 1



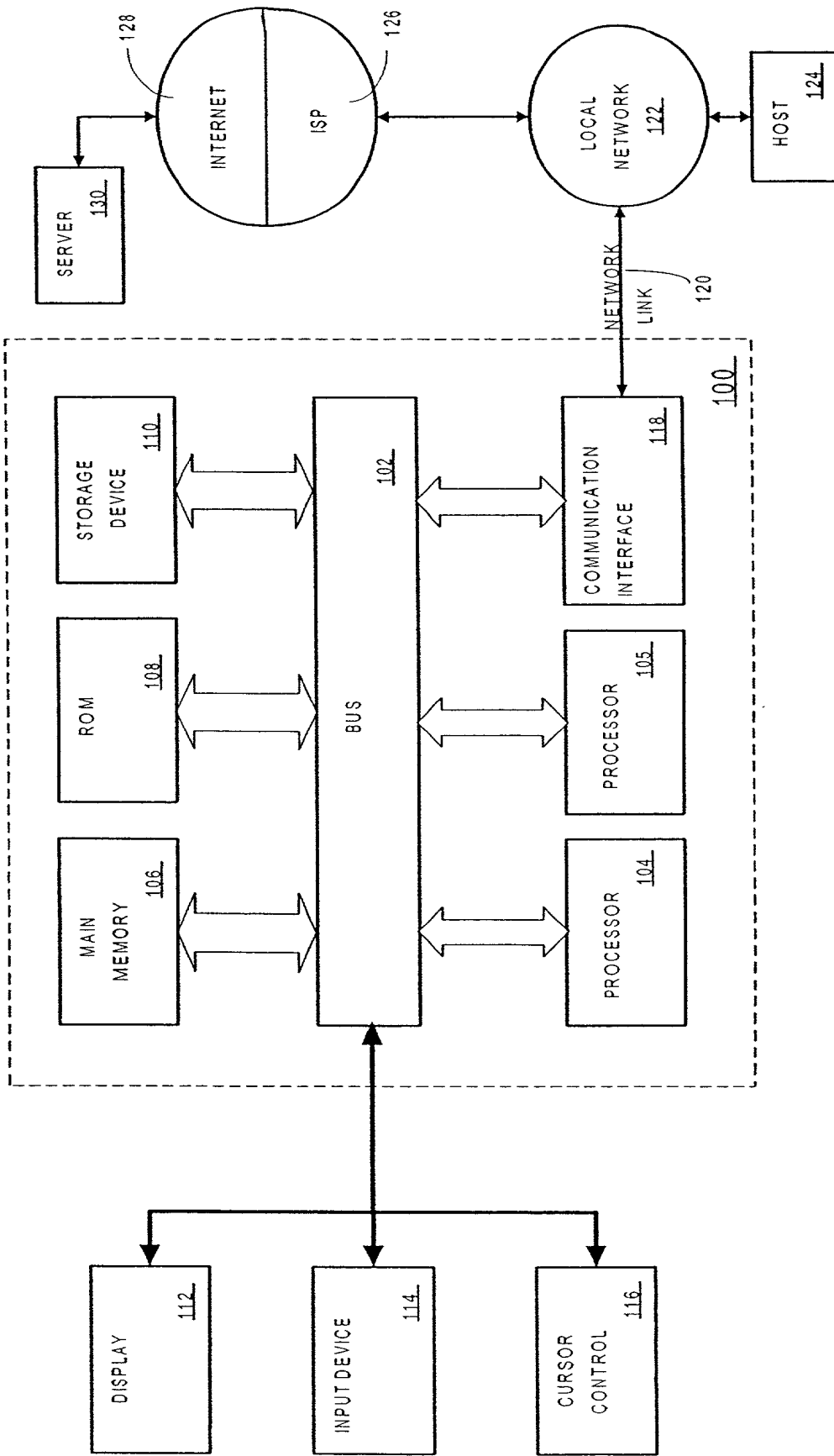


FIG. 2

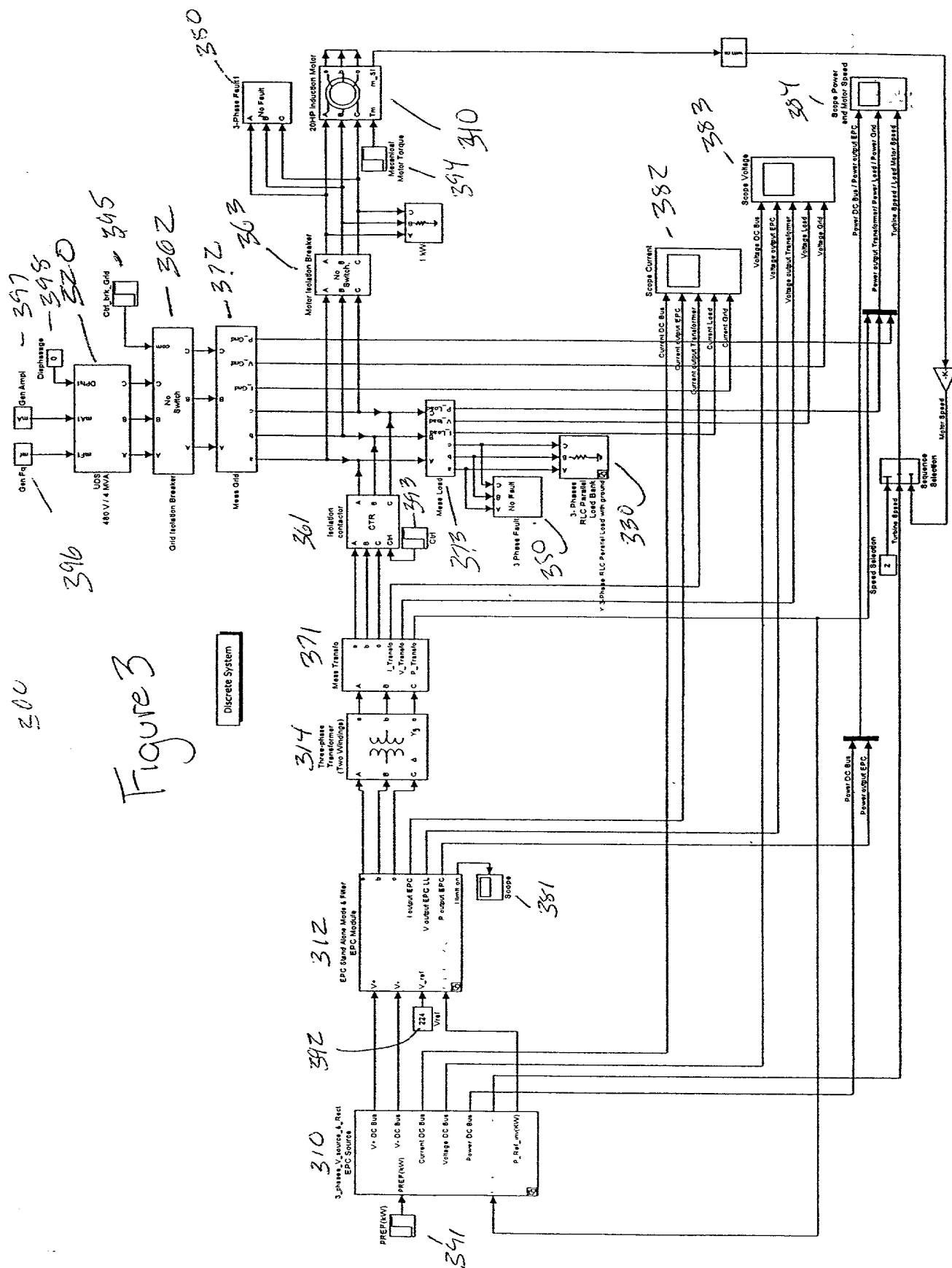


Figure 3

Figure 4

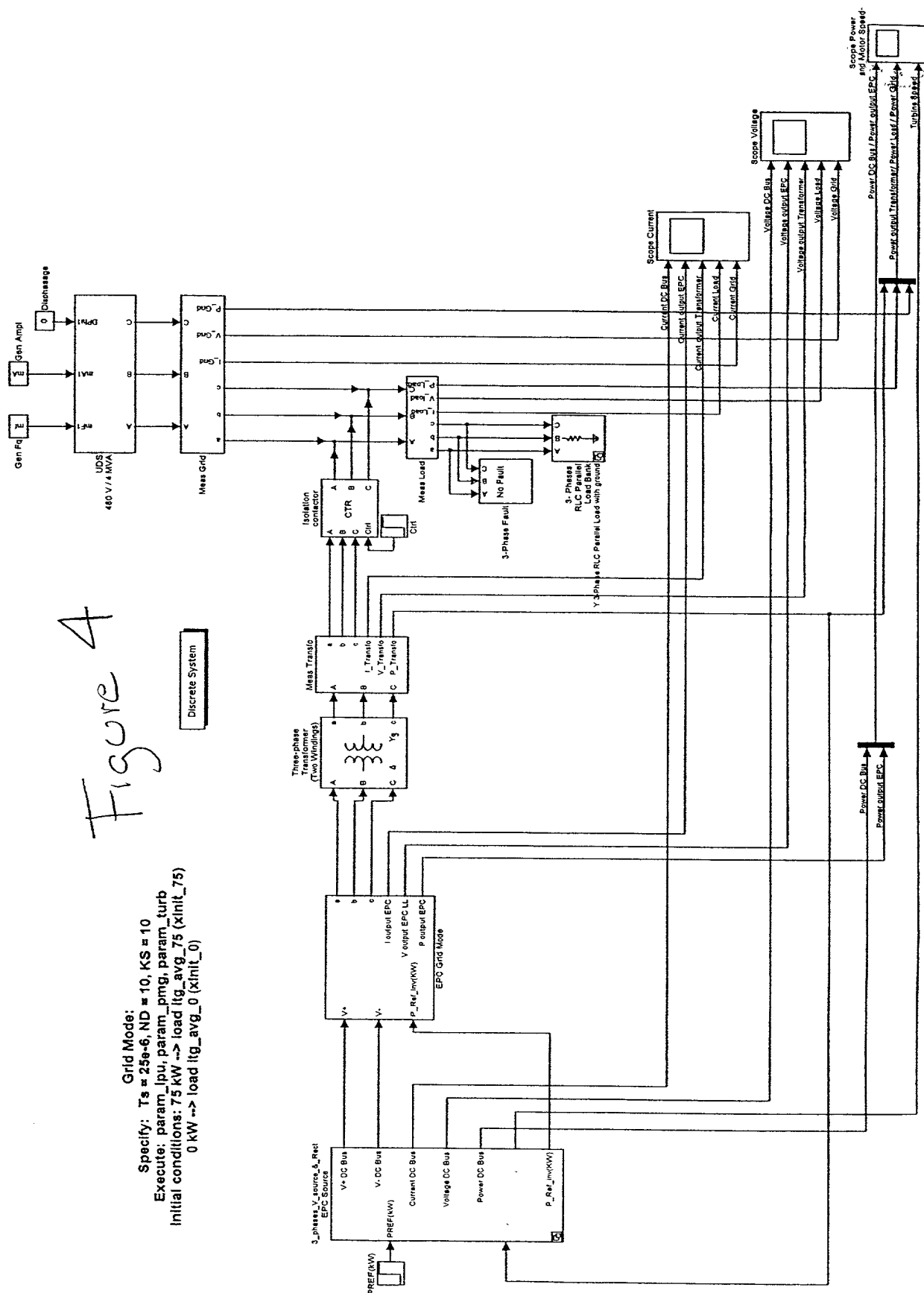
**Grid Mode:**

Specify: Ts = 250-6, ND = 10, KS = 10

Execute: param\_lpu, param\_pmg, param\_turb

Initial conditions: 75 kW --> load lfg\_avg\_75 (xlnit\_75)

0 kW --> load ltg\_avg\_0 (xlnit\_0)





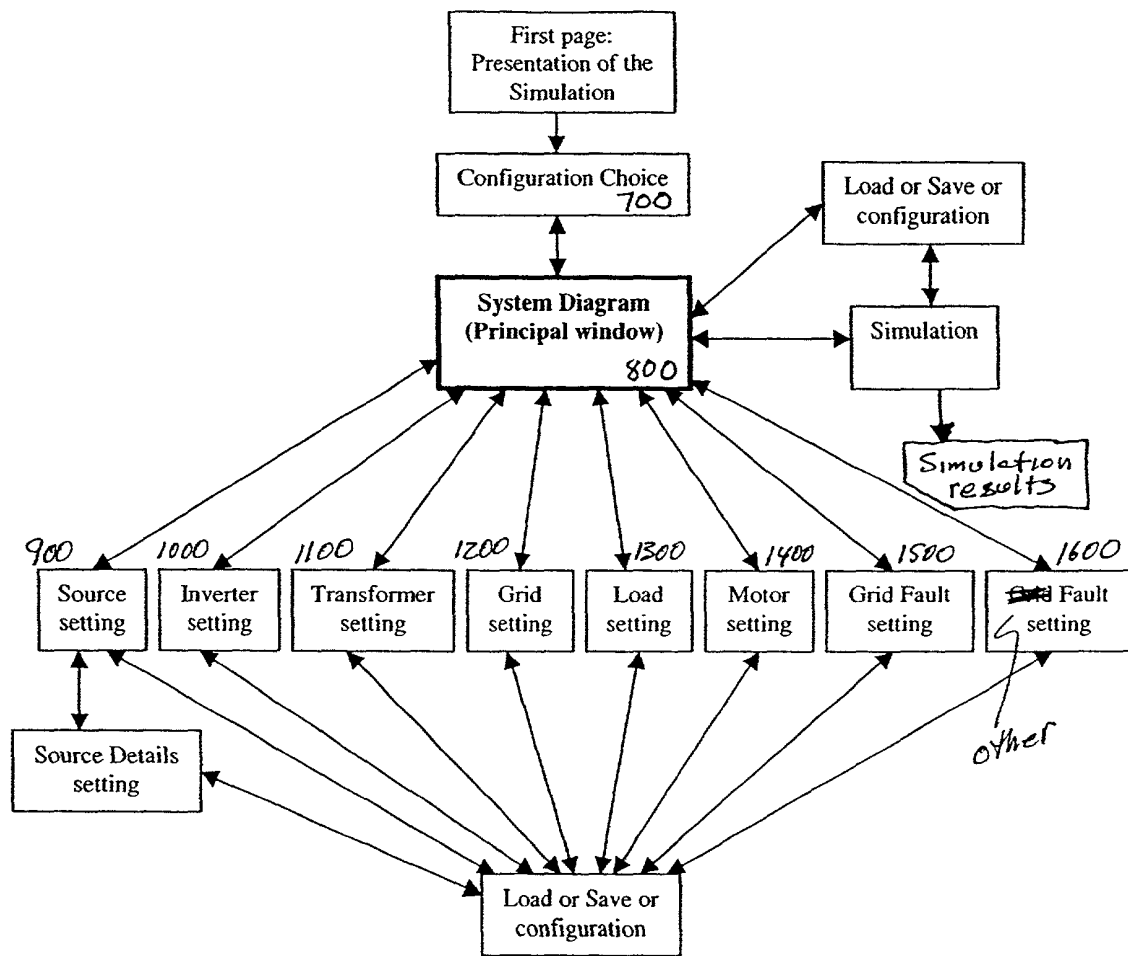
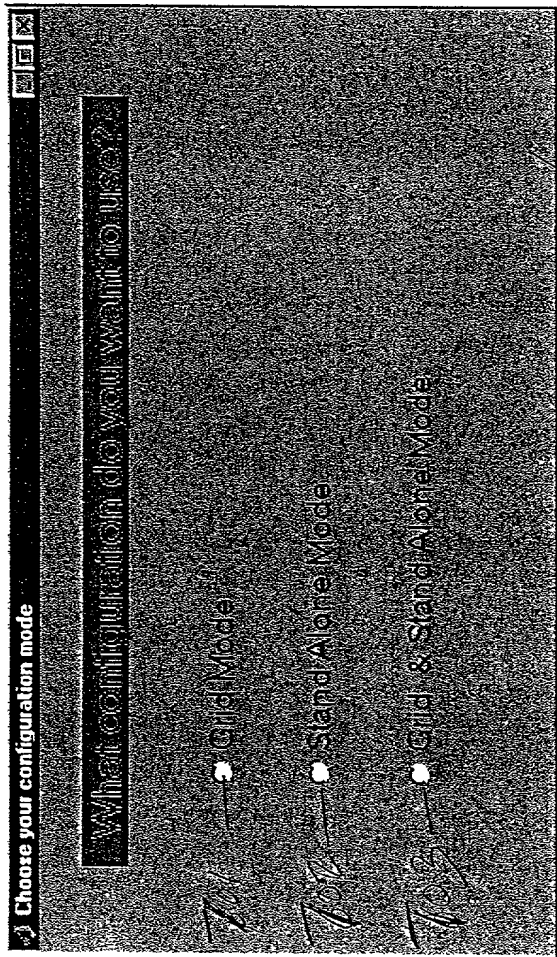


FIGURE 6



700

Figure 7

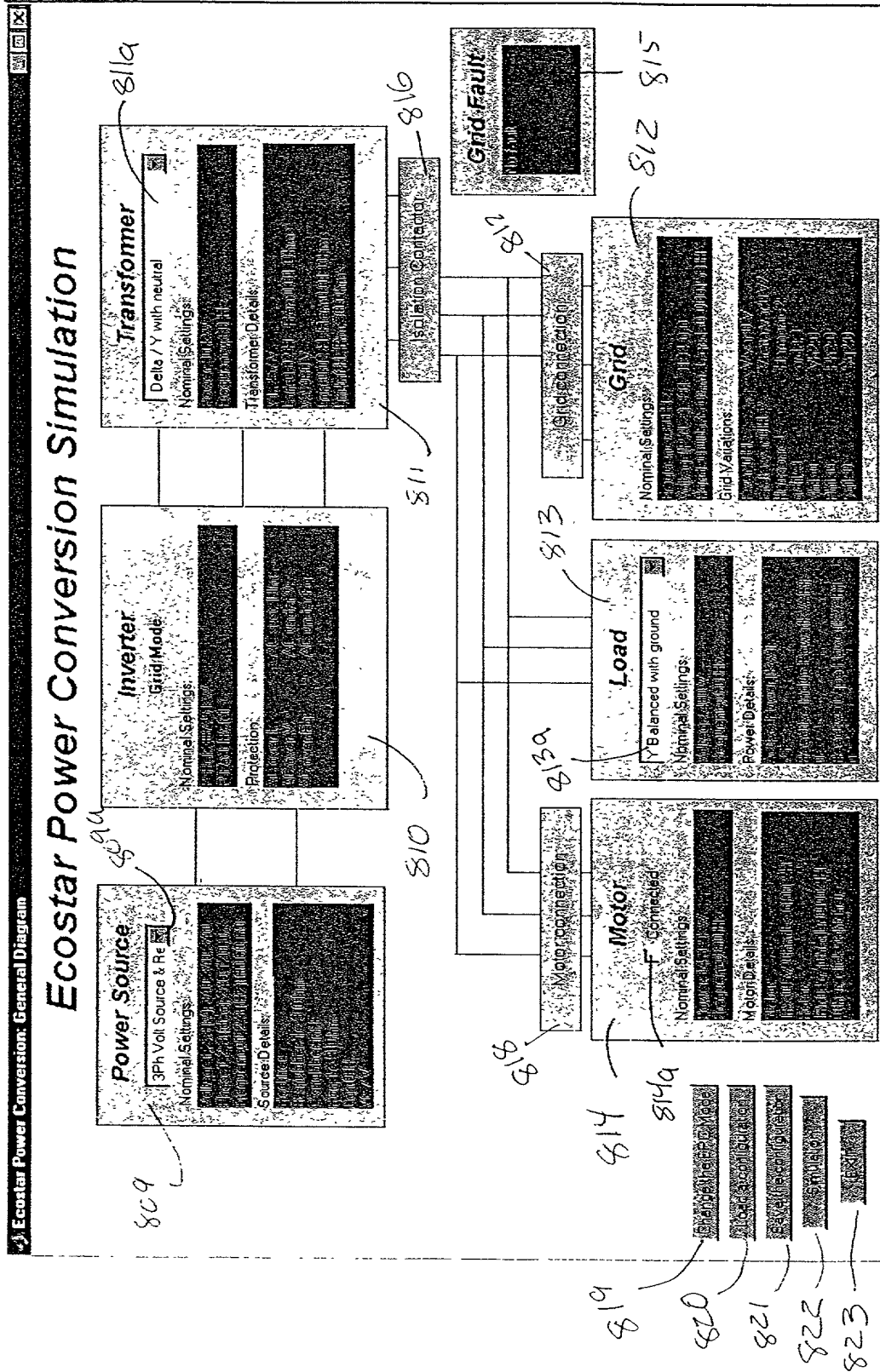


FIGURE 8







**Inverter settings:**

**Inverter**

Load configuration Save the configuration

Operation Mode: Stand Alone Mode

Nominal settings

Inverter Protection: Not available in this release

Power:	75	AC overvoltage	AC overcurrent	AC overfrequency
60KW	200KW	80% 100% 200%	100% 200%	45Hz 50 55Hz

Power Factor:	1	AC sustained limit	AC undervoltage	AC underfrequency
0.75lag 0.75lead	80% 100% 200%	30% 100%	45Hz 50 55Hz	

OK

Figure 10

**Transformer setting:**

**TRANSFORMER**

**Transformer Type**  
Delta / Y with neutral

**Nominal settings**

Power: 90 50kW 200kW  
Frequency: 60 45Hz 100Hz  
Magnetisation settings  
Rm (pu): 30 10 Ohms 1k Ohms  
Lm (pu): Inf 1H Inf

**Winding 1**

Voltage: 257 200V 800V  
R1: 0.01 1e-4 Ohms 0.1 Ohms  
L1: 0.02 1e-3 H 0.1 H

**Winding 2**

Voltage: 480 200V 800V  
R2: 0.01 1e-4 Ohms 0.1 Ohms  
L2: 0.02 1e-3 H 0.1 H

OK

Figure 11

[illegible]



**Load setting:**

**LOAD**

**Load Type:** Y Unbalanced without ground

**NOMINAL SETTING**

Nominal Voltage: 480 V 500V

Frequency: 60 Hz 50Hz

**ACTIVE POWER**

Phase1: 15 kW 80kW

Phase2: 10 kW 80kW

Phase3: 5 kW 80kW

**REACTIVE INDUCTIVE POWER**

Phase1: 0 kVAR 80kVAR

Phase2: 0 kVAR 80kVAR

Phase3: 0 kVAR 80kVAR

**REACTIVE CAPACITIVE POWER**

Phase1: 0 kVAR 80kVAR

Phase2: 0 kVAR 80kVAR

Phase3: 0 kVAR 80kVAR

**Buttons:** Load, Save, OK

Figure 13

Motor setting:

MOTOR

Load configuration

Save configuration

Nominal settings

Power

50kW

100kW

200kW

300V

800V

Frequency

45Hz

65Hz

0Hz

100Hz

Value (range) in (H)

0H

100Hz

Stator

Rs (Ohm)

10 Ohms

50 Ohms

0H

1e6H

Rs (H)

0H

1e6H

Rotor

Rr (Ohm)

10 Ohms

50 Ohms

0H

1e6H

Rr (H)

0H

1e6H

Mechanical

Proton Factor

300V

800V

10 Ohms

50 Ohms

Pairs of Poles

1

2

3

4

Time of application

0H

100Hz

Initial conditions

Slip

0H

100Hz

1e6H

Time (sec)

0H

100Hz

Time (sec)

0H

100Hz

OK

Figure 14





**Motor Isolation Contactor**

Isolation Contactor setting:

Initial Status (0=open, 1=closed)

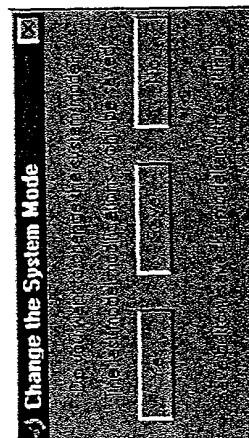
Time Transition

Transition Status

Breaker Release Resistance Pn(Ohm)  10 Ohms  25 Ohms

Breaker Seize Resistance Pn(Ohm)  10 Ohms  50 Ohms

Figure 16



Simulation setting

SIMULATION

Simulation Time

Start time: 0 Stop time: 0.25

Initial State

☐ Load initial state

☐ System initial state

☐ Nonlinear initial state

☐ Random initial state

☐ System initial state

☐ Nonlinear initial state

☐ Random initial state

☐ System initial state

☐ Nonlinear initial state

☐ Random initial state

Simulation

Simulation time: 10

Pause

Continue

Stop

Figure 17

1700

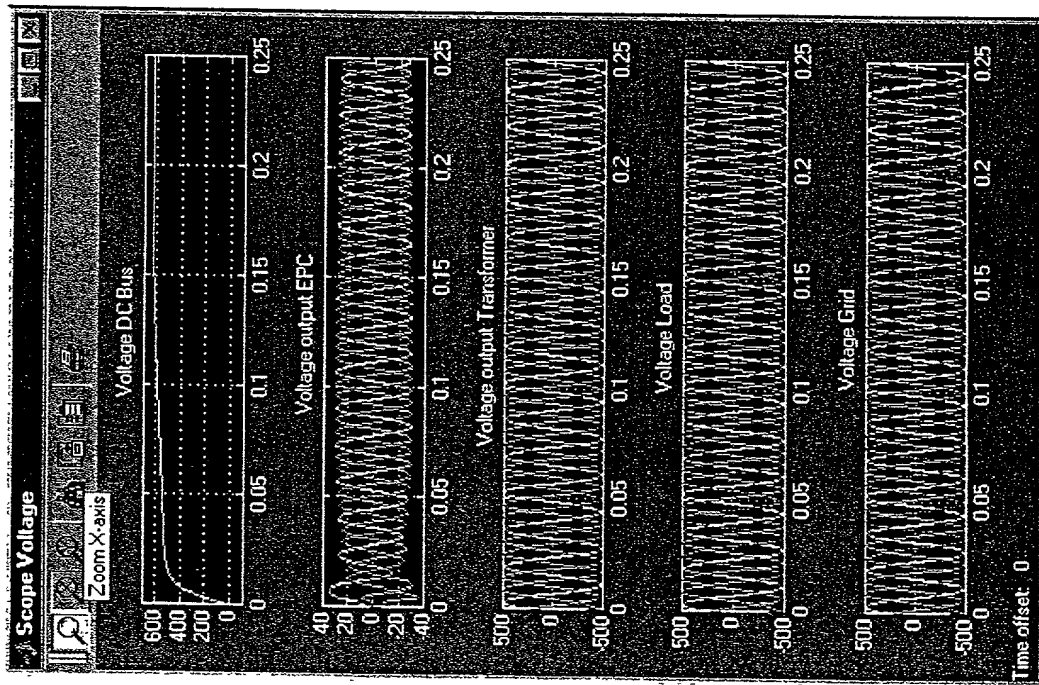
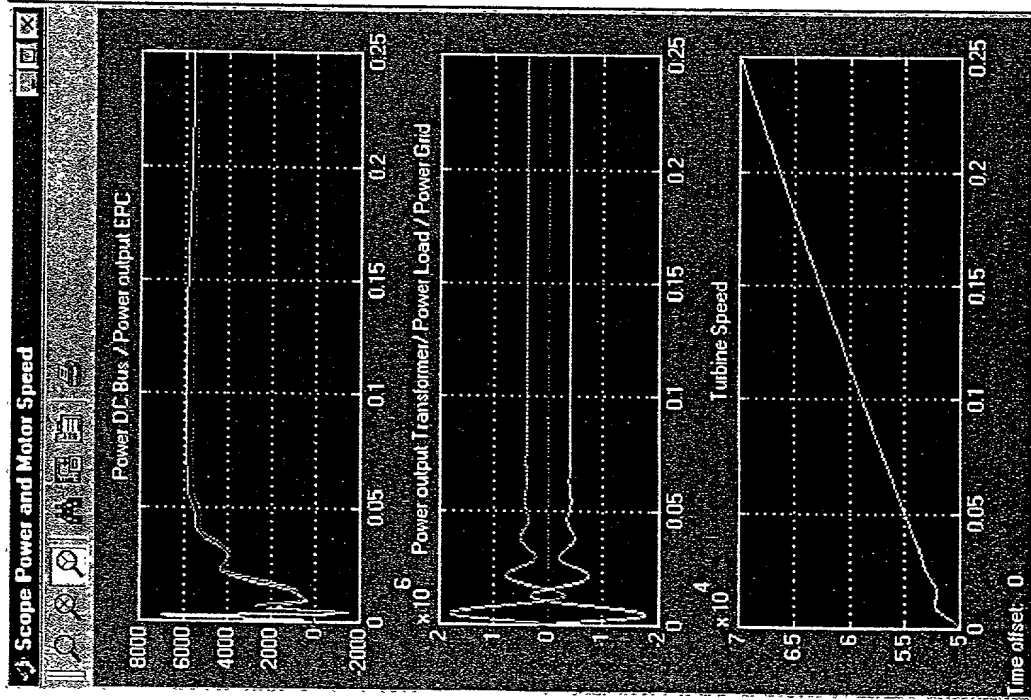
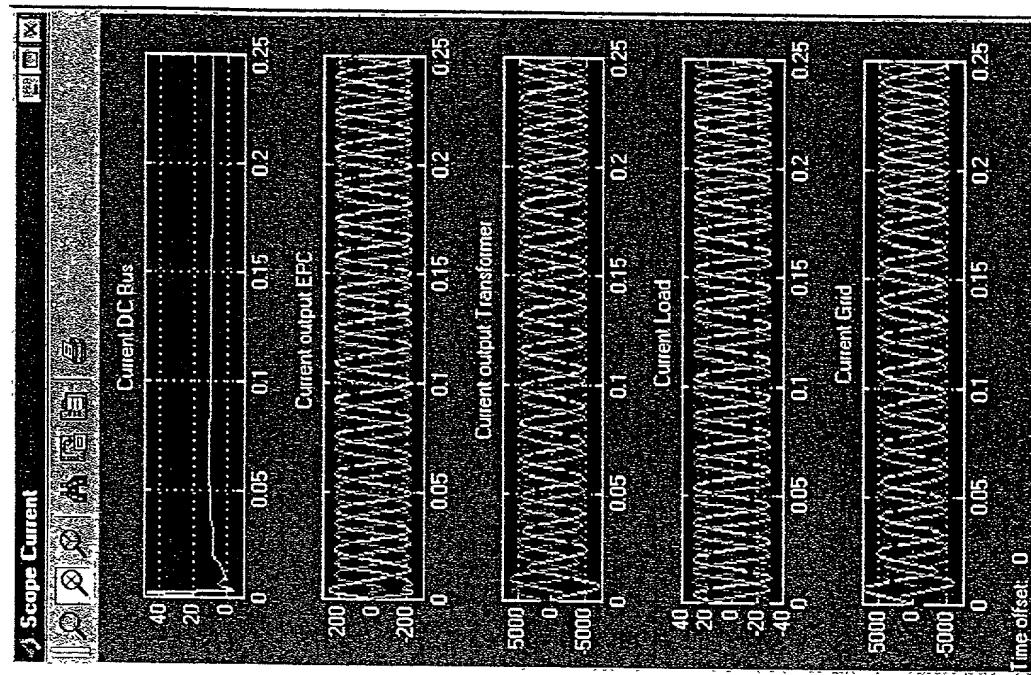


Figure 18

Figure 19



a.



b.